What is claimed is:

1. A method of measuring HLA-DR expression on the surface of human blood cells domprising:

contacting a sample containing human blood cells with a lysosomotropic amine and an antibody specific for HLA-DR; and then

detecting the binding of said anti-HLA-DR antibody to said cells.

2. The method of claim 1, wherein said sample is unfractionated peripheral blood.

3. The method of either claim 1 or claim 2, wherein said lysosomotropic amine is selected from the group consisting of chloroquine, indroxychloroquine, primaquine, and methylamine.

- 4. The method of claim 3, wherein said lysosomotropic amine is chloroquine.
- 5. The method of claim 3, wherein said lysosomotropic amine is hydroxychloroquine.
- 6. The method of either claim 1 or claim 2, wherein said anti-HLA-DR antibody is labeled with a fluorophore.
- 7. The method of claim 6, wherein said fluorophore is selected from the group consisting of PE, APC, FITC, and PerCP.

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The method of claim 7, wherein said fluorophore is PE.

9. The method of claim 8, wherein said fluorophore is conjugated to said anti-HLA DR antibody at a defined molar ratio.

- 10. The method of claim 9, wherein said ratio is 1:1.
- The method of either claim 1 or claim 2, wherein said antibody binding is detected flow cytometrically.
- The method of claim 11, wherein said lysosomotropic amine is chlorequine and said anti-HLA-DR antibody is conjugated to RE
- The method of claim 12, wherein said anti-HLA-DR antibody is conjugated to PE at a molar ratio of 1:1.
- The method of either claim 1 or claim 2, wherein said detecting step further comprises detecting the binding of said anti-HLA-DR antibody to monocytes in said sample.
- The method of claim 14, wherein said contacting step further comprises contacting with a monocytedistinguishing antibody and said detecting step measures the binding of said anti-HLA-DR antibody to cells binding said monocyte-distinguishing antibody.
- The method of claim 15, wherein said monocyte-distinguishing antibody is specific for CD14.

- 17. The method of claim 16, wherein said anti-CD14 antibody is conjugated to the PerCP moiety of a PerCP/CY5.5 tandem fluorophore.
- 18. The method of claim 17, wherein said anti-HLA-DR antibody is conjugated to a fluorophore whose emission spectrum is flow cytometrically distinguishable from PerCP/CY5.5.
- 19. The method of claim 18, wherein said anti-HLA-DR antibody is conjugated to PE.
- 20. The method of claim 19, wherein said anti-HLA-DR antibody is conjugated to PE at a defined molar ratio.
- 21. The method of claim 20, wherein said ratio is 1:1.
- 22. The method of claim 19, wherein said lysosomotropic amine is chloroquine.
- 23. The method of claim 19, wherein said lysosomotropic amine is hydroxychloroquine.
- 24. The method of claim 22, wherein said antibody binding is detected flow cytometrically.
- 25. The method of claim 2, further comprising the step, after said contacting step and before said detecting step, of: lysing the erythrocytes in said peripheral blood sample.
- 26. The method of claim 24, further comprising the step, after said contacting step and before said

detecting step, of: lysing the erythrocytes in said peripheral blood sample.

- 27. The method of claim 25, further comprising the step, after said lysing step and before said detecting step, of removing lysis debris.
- 28. The method of claim 26, further comprising the step, after said lysing step and before said detecting step, of removing lysis debris.
- 29. In a method of measuring HLA-DR surface expression on human peripheral blood monocytes, the improvement comprising: contacting said monocytes with chloroquine prior to or concurrently with contacting said cells with an anti-HLA-DR antibody.
- 30. In a method of measuring HLA-DR surface expression on human peripheral blood monocytes, the improvement comprising: contacting said monocytes with an anti-CD14 antibody conjugated to the PerCP moiety of a PerCP/CY5.5 tandem dye molecule.
- 31. A method of assessing the immune status of a human patient, comprising:

contacting a sample containing said patient's blood cells with a lysosomotropic amine and an antibody specific for HLA-DR;

detecting the binding of said anti-HLA-DR antibody to the monocytes in said sample; and then

comparing the level of binding so detected with that so detected from human controls.

- 32. The method of claim 31, wherein said lysosomotropic amine is selected from the group consisting of chloroquine and hydroxychloroquine.
- 33. The method of claim 32, wherein said contacting step further comprises contacting said sample with a monocyte-distinguishing antibody, and said detecting step measures the binding of said anti-HLA-DR antibody to cells binding said monocyte-distinguishing antibody.
- 34. The method of claim 33, wherein said monocytedistinguishing antibody is anti-CD14-PerCP/CY5.5.
- 35. A method of determining the suitability of immunostimulatory therapy in a patient with sepsis, comprising:

contacting a sample containing said patient's blood cells with a lysosomotropic amine and an antibody specific for HLA-DR;

detecting the binding of said anti-HLA-DR antibody to the monocytes in said sample;

comparing the level of binding so detected with that detected from normal controls, wherein patients with binding lower than control are determined to be suitable for said treatment.

36. A method of determining the suitability of immunostimulatory therapy in a patient with sepsis, comprising:

contacting a sample containing said patient's blood cells with a lysosomotropic amine and an antibody specific for HLA-DR;

quantitating the binding of said anti-HLA-DR antibody to the monocytes in said sample; wherein patients averaging fewer than 5000 anti-HLA-DR antibodies per monocyte are determined to be suitable for said treatment.

- 37. The method of claim 36, wherein patients averaging fewer than 3000 anti-HLA-DR antibodies per monocyte are determined to be suitable for said treatment.
- 38. The method of claim 37, wherein patients averaging fewer than 3000 anti-HLA-DR antibodies per monocyte over two consecutive days are determined to be suitable for said treatment.
- 39. A composition for flow cytometric measurement of HLA-DR on human peripheral blood cells, comprising:
 - a fluorophore-conjugated anti-HLA-DR antibody, and
 - a lysosomotropic amine.
- 40. The composition of claim 39, wherein said lysosomotropic amine is selected from the group consisting of chloroquine, hydroxychloroquine, primaquine, and methylamine.
- 41. The composition of claim 40, wherein said lysosomotropic amine is chloroquine.
- 42. The composition of claim 40, wherein said lysosomotropic amine is hydroxychloroquine.
- 43. The composition of claim 39, wherein said fluorophore is PE.

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- 44. The composition of claim 43, wherein said PE fluorophore and said antibody are conjugated at a defined molar ratio.
- 45. The composition of claim 44, wherein said ratio is 1:1.
- 46. The composition of claim 39, further comprising: a monocyte-distinguishing antibody conjugated to a fluorophore.
- 47. The composition of claim 46, wherein said monocyte-distinguishing antibody is specific for CD14.
- 48. The composition of claim 47, wherein the fluorophore conjugated to said anti-CD14 antibody is flow cytometrically distinguishable from the fluorophore conjugated to said anti-HLA-DR antibody.
- 49. The composition of claim 48, wherein said anti-HLA-DR antibody is conjugated to PE and said anti-CD14 antibody is conjugated to the PerCP moiety of a PerCP/CY5.5 tandem molecule.
- 50. The composition of claim 49, wherein said lysosomotropic amine is chloroquine.
- 51. A kit for flow cytometric measurement of HLA-DR on the surface of peripheral blood cells, comprising:

 a composition according to claim 39, and an erythrocyte lysing composition.

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- 52. A kit for flow cytometric measurement of HLA-DR on the surface of peripheral blood cells, comprising: a composition according to claim 47, and an erythrocyte lysing composition.
- 53. A kit for flow cytometric measurement of HLA-DR on the surface of peripheral blood cells, comprising: a composition according to claim 50, and an erythrocyte lysing composition.
- 54. The kit according to claim 51, further comprising: pelletized beads conjugated with defined levels of PE.
- 55. The kit according to claim 53, further comprising: pelletized beads conjugated with defined levels of PE.
- 56. A monocyte-specific immunoconjugate, comprising: an anti-CD14 antibody conjugated to the PerCP moiety of a PerCP/CY5.5 tandem dye molecule.
- 57. The immunoconjugate of claim 56, wherein said anti-CD14 antibody is LeuM3.
- 58. A method of measuring CD11b expression on the surface of human blood cells, comprising:

contacting a sample containing human blood cells with a lysosomotropic amine and an antibody specific for CD11b; and then

detecting the binding of said anti-CD11b antibody to said cells.

59. The method of claim 58, wherein said sample is unfractionated peripheral blood.

- 60. The method of either claim 58 or claim 59, wherein said lysosomotropic amine is selected from the group consisting of chloroquine, hydroxychloroquine, primaquine, and methylamine.
- 61. The method of claim 60, wherein said lysosomotropic amine is chloroquine.
- 62. The method of claim 60, wherein said lysosomotropic amine is hydroxychloroquine.
- 63. The method of either claim 58 or claim 59, wherein said anti-CD11b antibody is labeled with a fluorophore.
- 64. The method of claim 63, wherein said fluorophore is selected from the group consisting of PE, APC, FITC, and PerCP.
- 65. The method of claim 64, wherein said fluorophore is PE.